

PROJECT 10073 RECORD

1. DATE - TIME GROUP 30 April 49 01/0415Z	2. LOCATION Albuquerque, New Mexico
3. SOURCE Civilian	10. CONCLUSION Astro (METEOR)
4. NUMBER OF OBJECTS One	
5. LENGTH OF OBSERVATION Two seconds	11. BRIEF SUMMARY AND ANALYSIS Observer sighted a round blue-green object. It was very bright and heading West. It simply went out after about two seconds.
6. TYPE OF OBSERVATION Ground-Visual	
7. COURSE West	
8. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. PHYSICAL EVIDENCE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

FORM

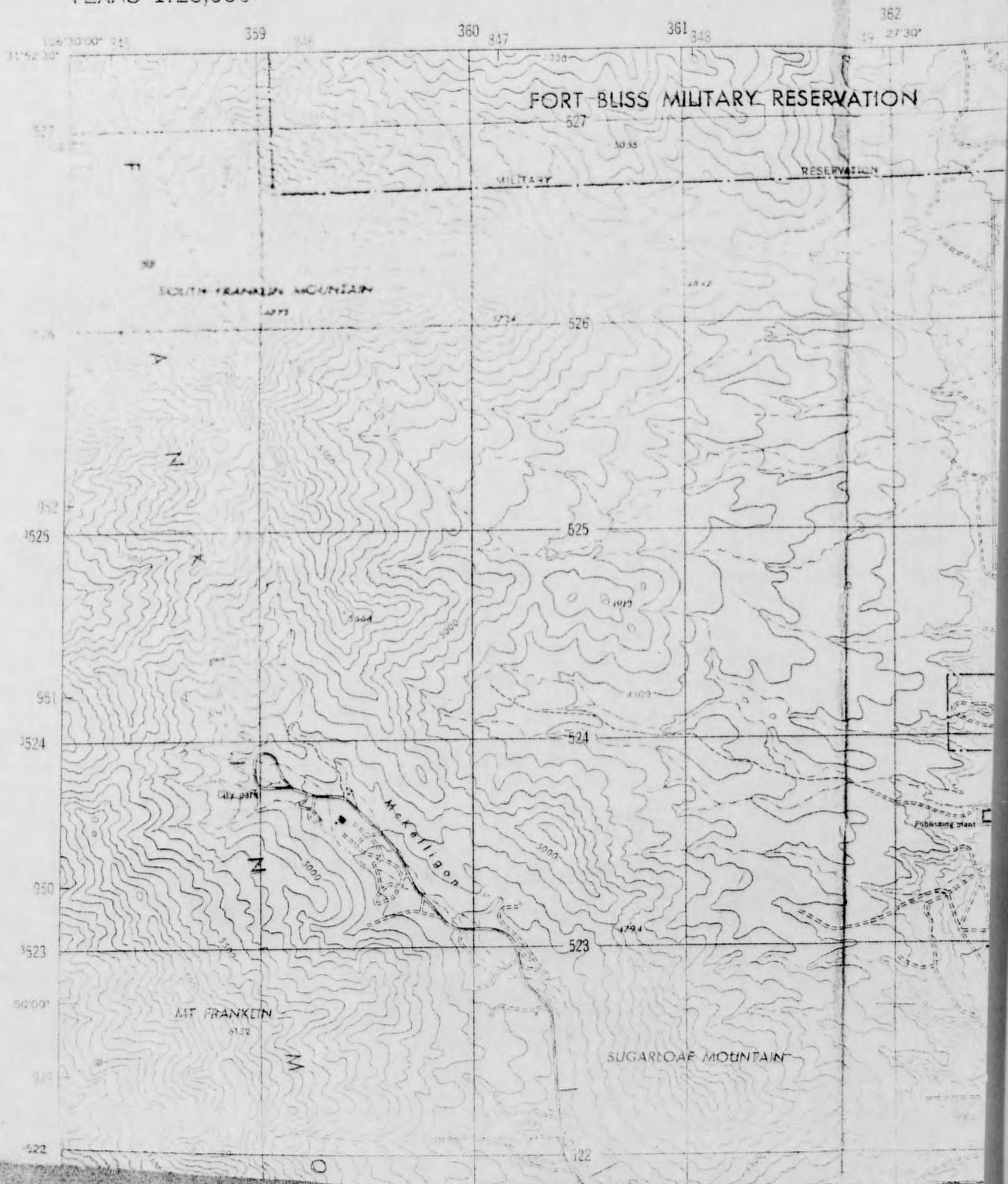
EL PASO



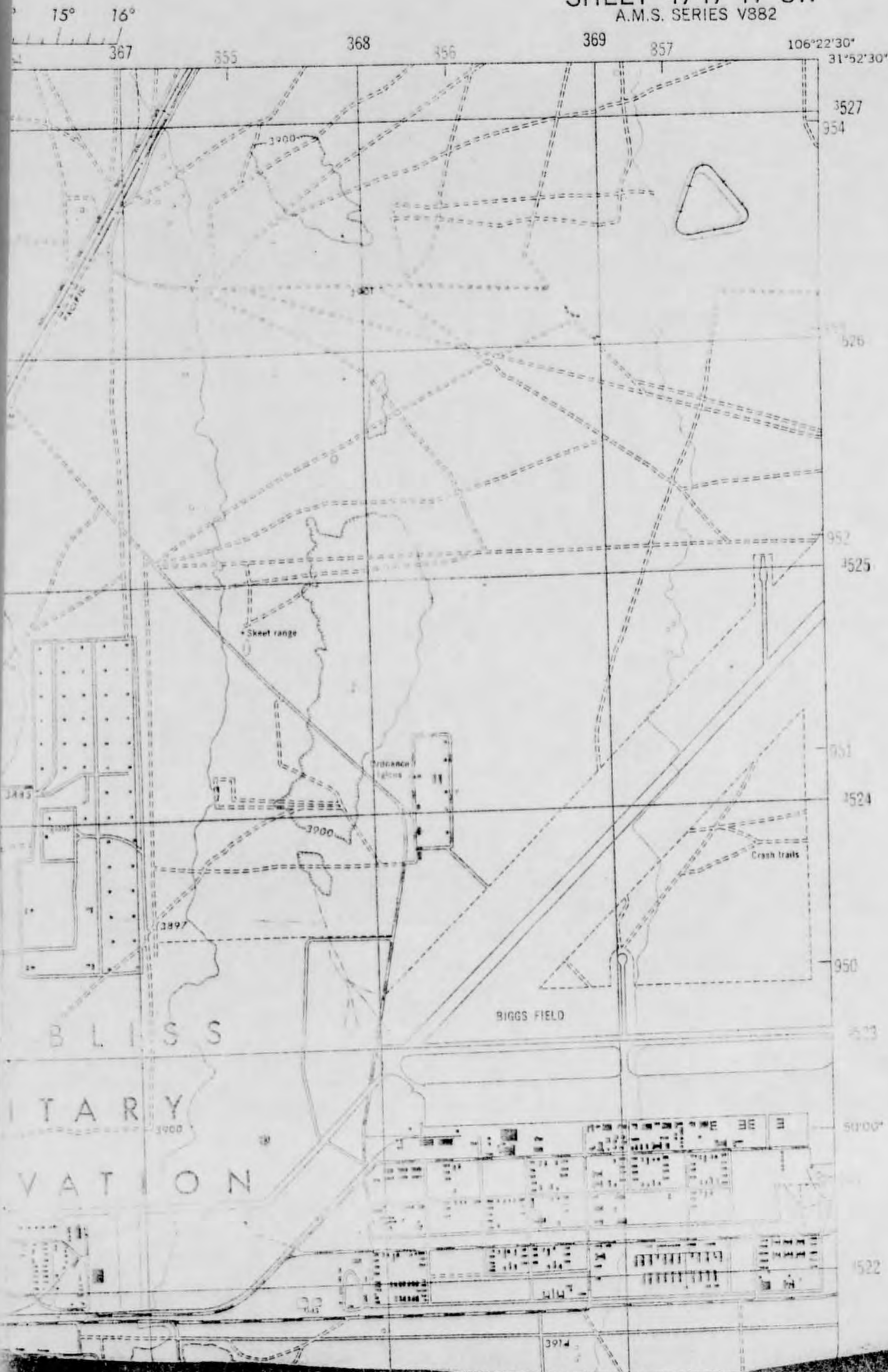
NAD 37386

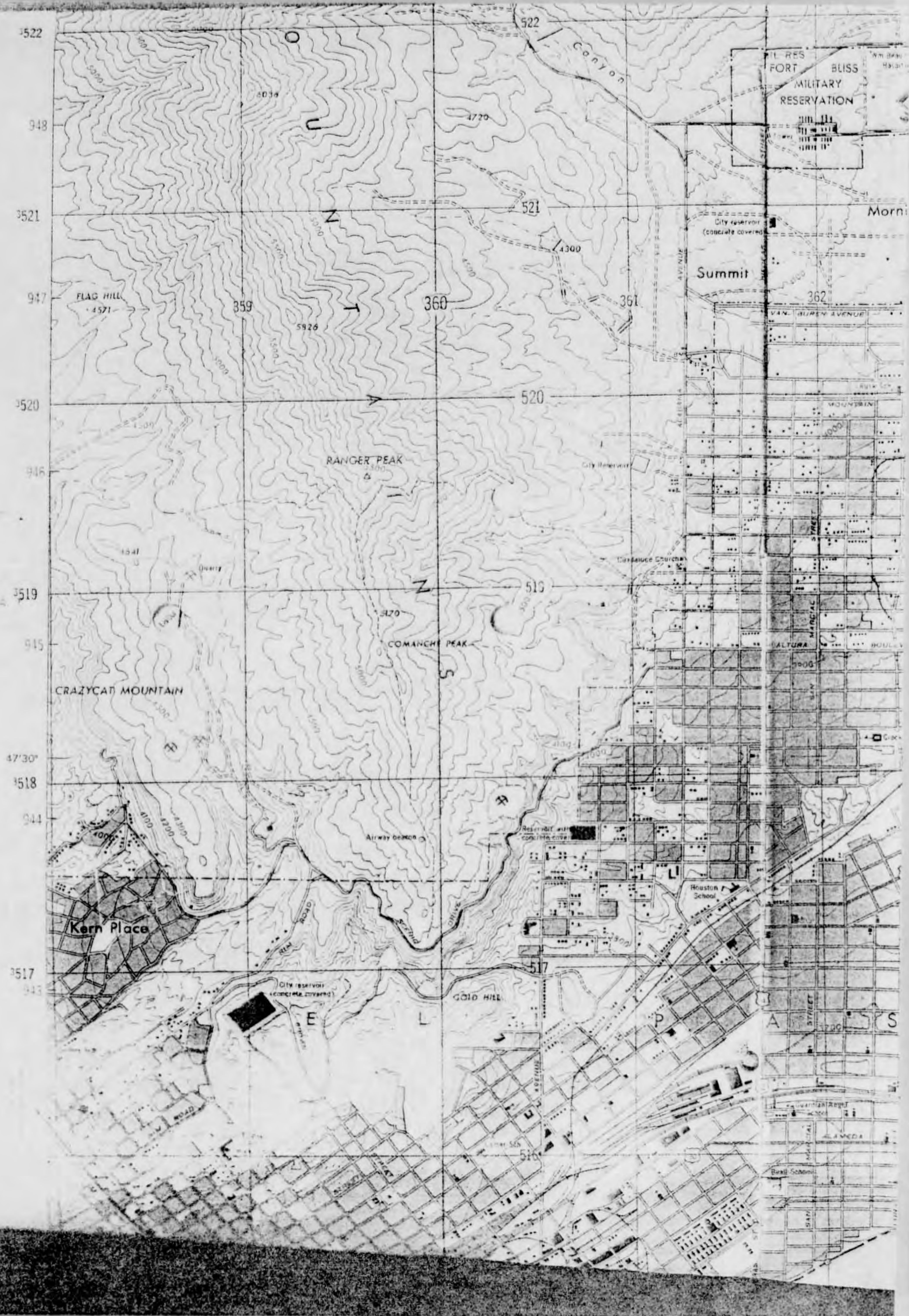
TEXAS 1:25,000

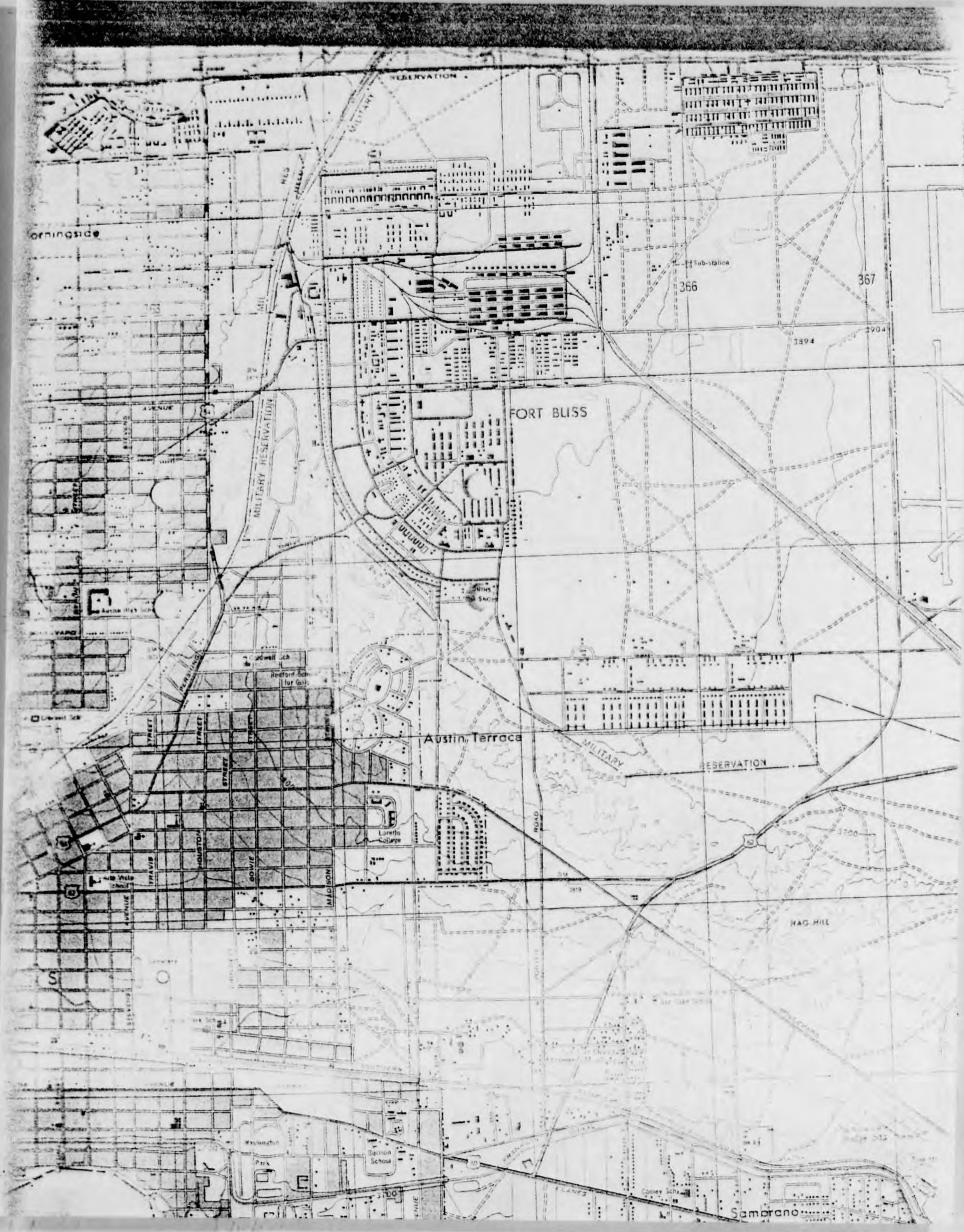
TYPE F-AMS 1

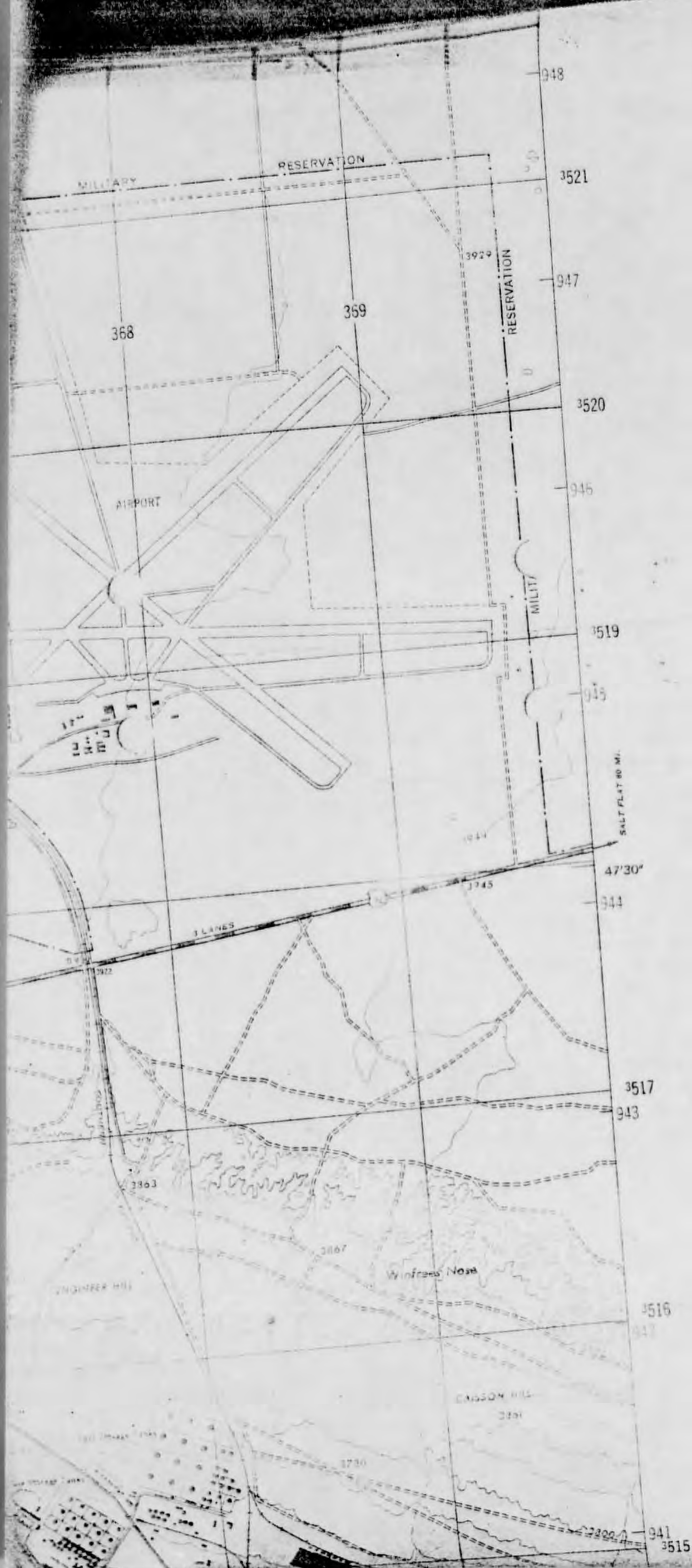


SHEET 4747 IV SW
A.M.S. SERIES V882











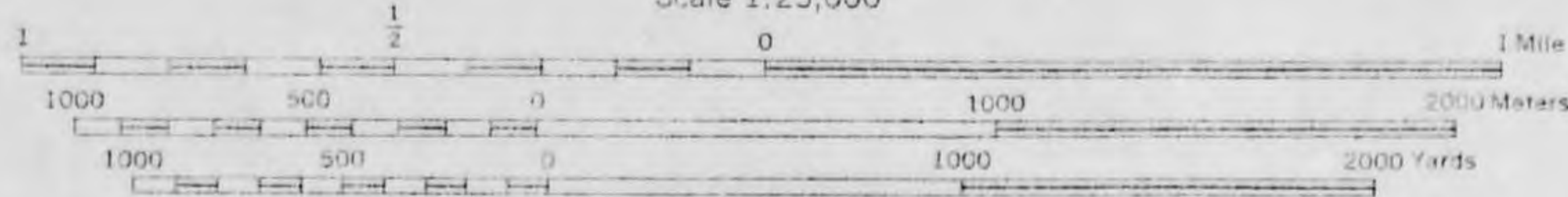
Prepared under the direction of the Chief of Engineers by the Army Map Service (AM), Corps of Engineers, Department of the Army, Washington, D. C. Compiled in 1947 from Texas, 1:62,500, USGS, Fort Bliss, 1945. Planimetric detail revised from aerial photography by photo-planimetric methods. Aerial photography by U. S. Air Force, 1944-46. Horizontal and vertical control by USGS and USC&GS. Planimetry field edited 1947.

LEGEND

Tint indicates built-up areas in which only landmark buildings are shown
ROAD DATA 1947

In developed areas, only through roads are classified.

Hard surface, heavy duty road, more than two lanes wide	1 LANE 1 LANE	Loose surface, graded and drained, or narrow hard surface road	
Hard surface, heavy duty road, two lanes wide; Federal route marker	30	Improved dirt road or street	
Hard surface, medium duty road, more than two lanes wide	1 LANE 1 LANE	Unimproved dirt road	
Hard surface, medium duty road, two lanes wide; State route marker	57	Trail	
RAILROADS		Horizontal control point	△
Standard gauge	Single track Double track	Bench mark, monumented	BH 732
Narrow gauge		Bench mark, non-monumented	X 431
Railroad in street		Spot elevation in feet	168
Carline		Cemetery	Cam
BOUNDARIES		Woods or brushwood	
National		Orchard	
State (with monument)		Vineyard	
County		Intermittent lake	
County subdivision		Intermittent stream; Dam	
Corporate limits		Swamp, marsh	
Reservation		Rapids; Falls	
Military reservation	MIL RES	Large rapids and falls	



CONTOUR INTERVAL 20 FEET

DATUM IS MEAN SEA LEVEL

TRANSVERSE MERCATOR PROJECTION

827 NORTH AMERICAN DATUM

ONE THOUSAND METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 13

DRAWN NUMBERED TICKS INSIDE THE NEATLINE INDICATE
THE 1000 YARD U.S. POLYCONIC GRID, ZONE 13

THE LAST THREE DIGITS OF THE GRID NUMBERS ARE OMITTED

USERS NOTING ERRORS OR OMISSIONS ON THIS MAP ARE URGED TO HAVE THEM FORWARDED DIRECTLY TO COMMANDING
OFFICER, ARMY MAP SERVICE, WASHINGTON, D. C. MAPS SO FORWARDED WILL BE RETURNED OR REPLACED IF DESIRED.

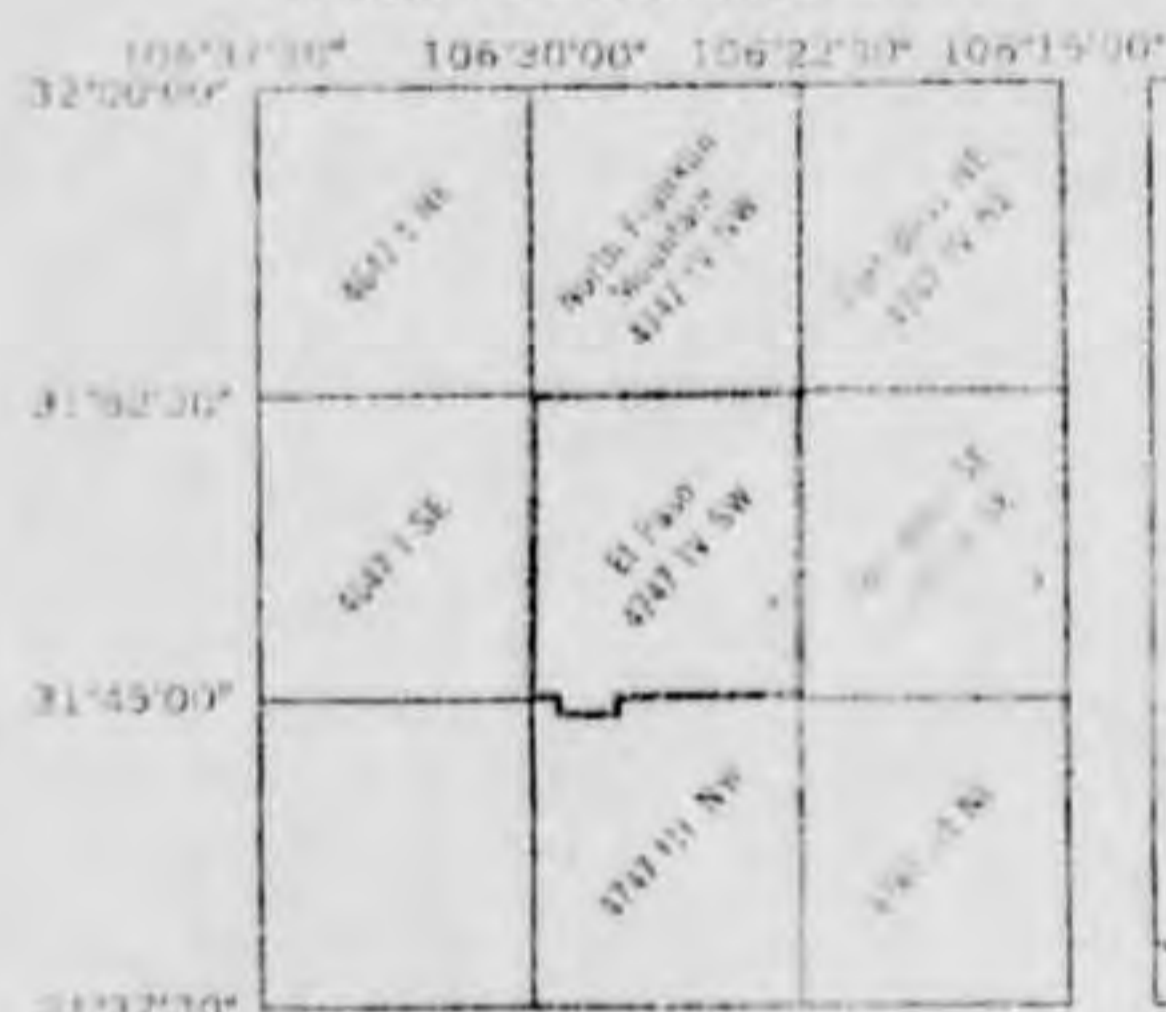


APPROXIMATE MEAN DECLINATION 1947
FOR CENTER OF SHEET
ANNUAL MAGNETIC CHANGE 1' WESTERLY
Use diagram only to obtain numerical
values. To determine magnetic north line,
connect the pivot point "P" on the south
edge of the map with the value of the
angle between GRID NORTH and MAG-
NETIC NORTH, as plotted on the degree
scale at the north edge of the map.





INDEX TO ADJOINING SHEETS



INDEX TO BOUNDARIES

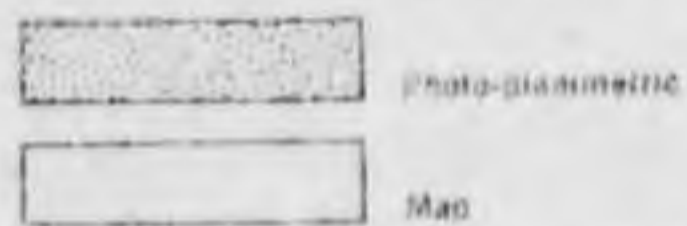


United States
A. Texas
1. El Paso County
Mexico
B. Chihuahua

COVERAGE DIAGRAM



COMPILATION METHODS



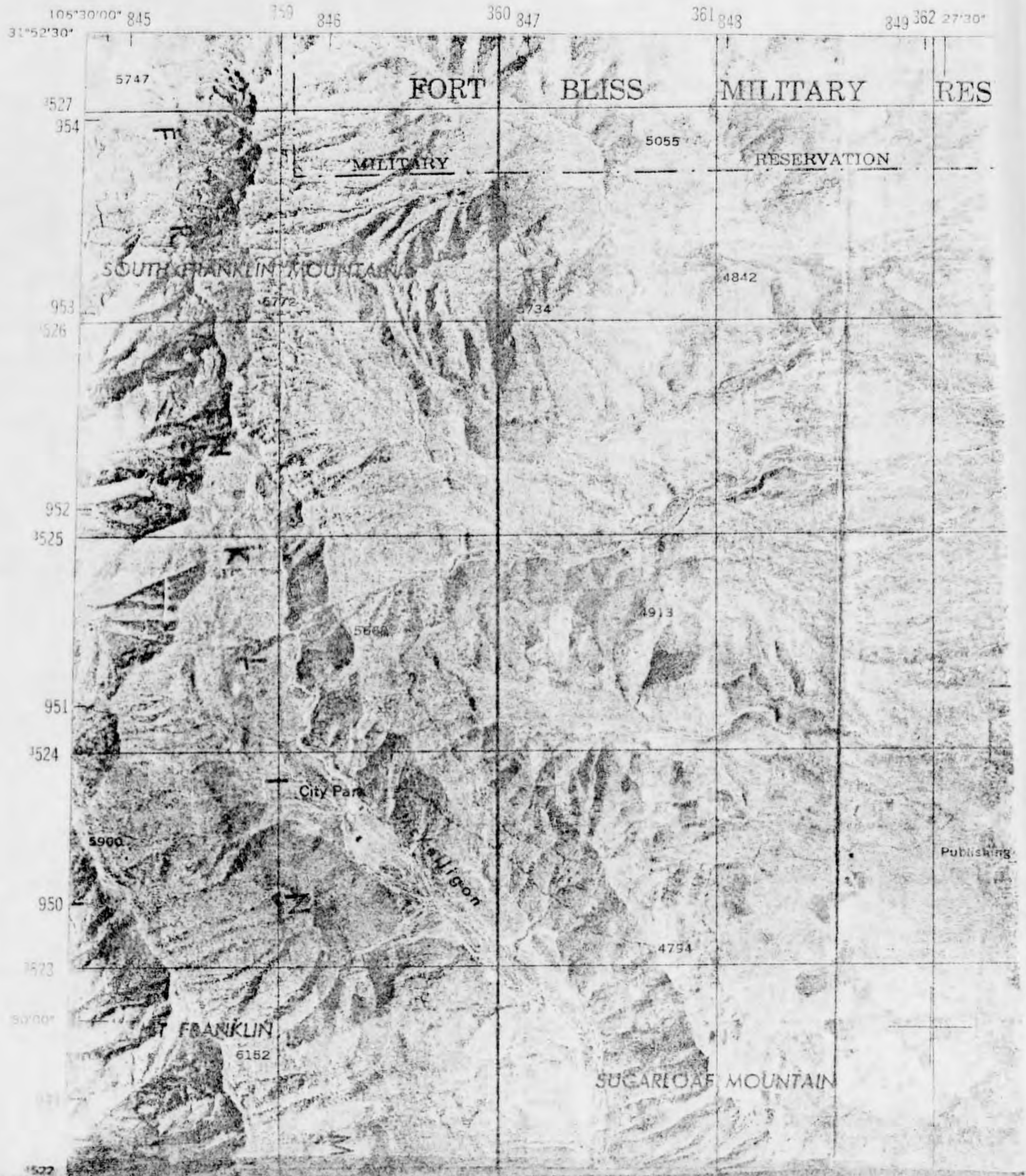
A. Texas, 1:52,500, 1930S, Fort Bliss, 1943
(controlled ground survey, reliability good).
Dates of aerial photography 1-1946, 2-1944

EL PASO, TEXAS
EL PASO COUNTY
N3145-W10622.5/7.5

DECLINATION 1947
10° WEST
CHANGE 1° WESTERLY
To obtain numerical
magnetic north line,
subtract 10° or the south
with the value of the
10° NORTH and MAG-
netic on the degree
edge of the map.

TEXAS PHOTO MAPS 1:25,000

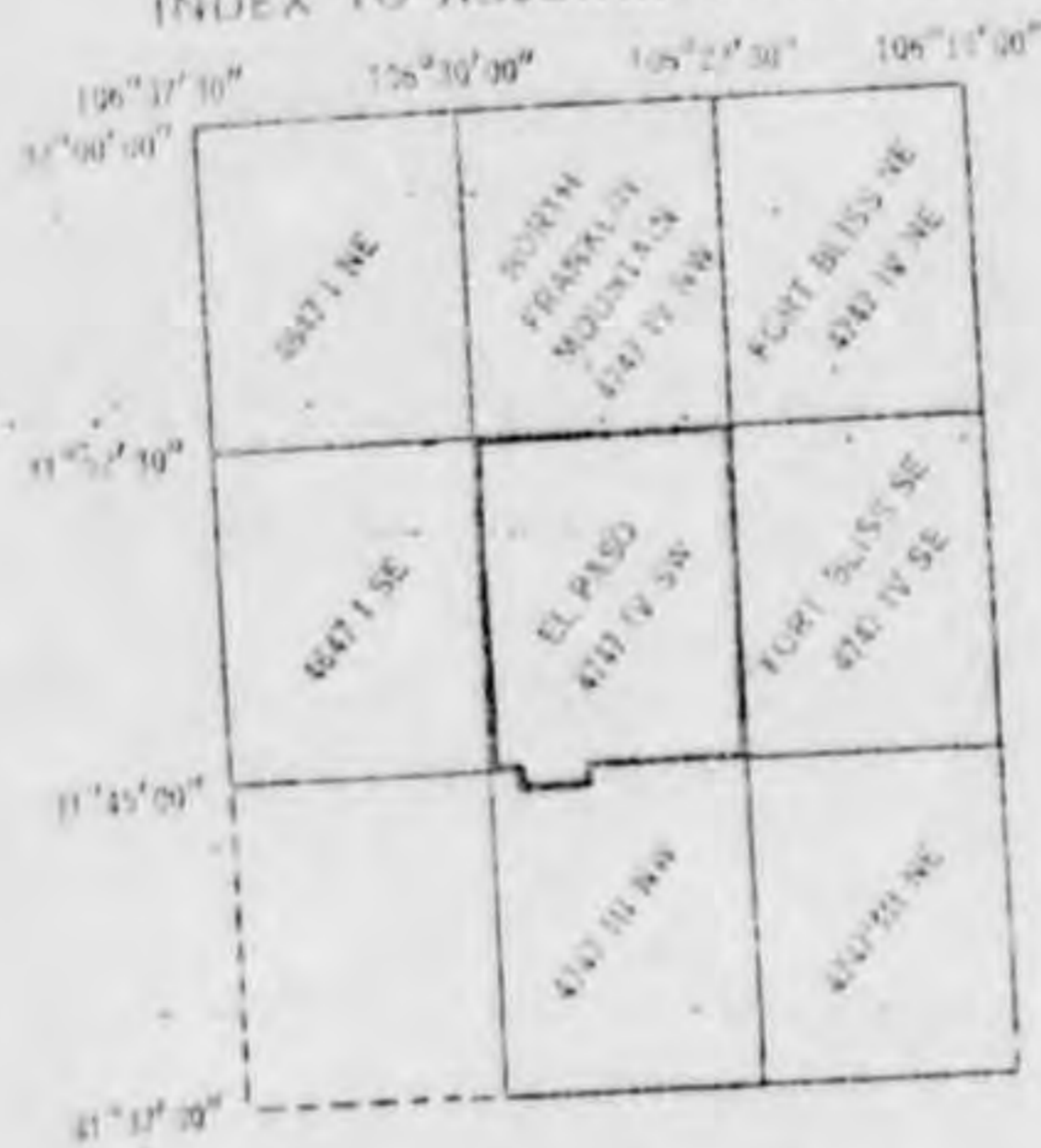
FIRST EDITION - AMS 1





ARMY MAP SERVICE, CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, 633748
1944

INDEX TO ADJOINING SHEETS



EL PASO, TEXAS
FORT BLISS AND VICINITY
N3145-W10622.5/7.5

UNCLASSIFIED

Page 2

Incident 322

Name and address of observer:

~~XXXXXXXXXXXXXXXXXXXX~~
Albuquerque, New Mexico

Occupation and hobbies:

Farmer

Comments of Interrogator relative to intelligence and character of observer(s):

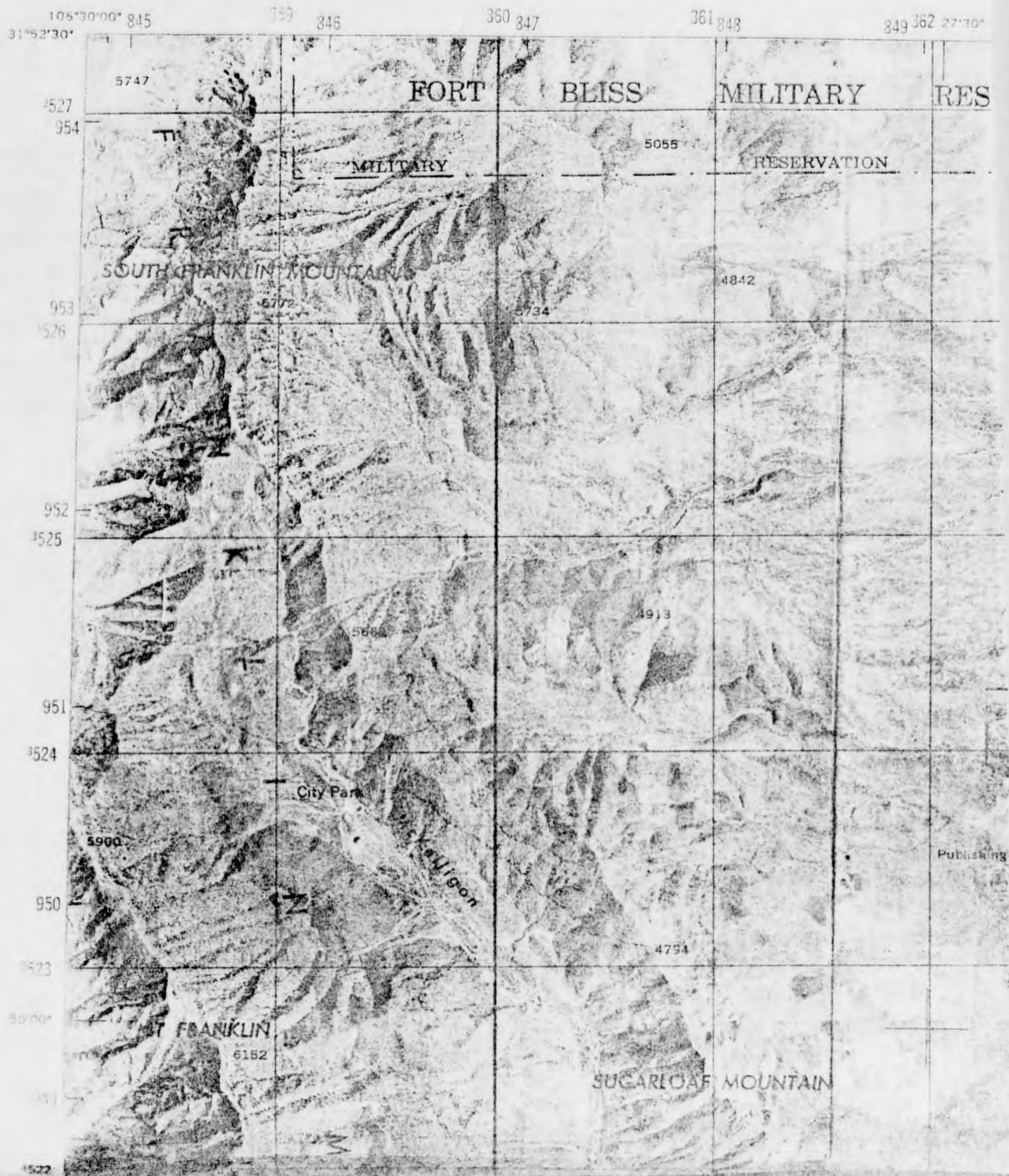
NARRATIVE SUMMARY:

See original Report in file with incident 318

UNCLASSIFIED

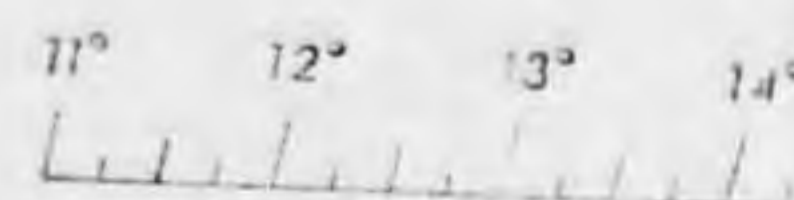
TEXAS PHOTO MAPS 1:25,000

FIRST EDITION AMS 1



DITION - AMS 1

EL PASO



UNCLASSIFIED

INCIDENT NO. 322

16

1. Date of Observation 30 April 1949 Date of Interview 2 May 1949
2. Exact Time (local) 2215
3. Place of Observation Albuquerque, New Mexico
4. Position of observer Ground
5. What attracted attention to object Light
6. Number of objects one
7. Apparent size 1/10 size of moon
8. Color of object Blue Green
9. Shape Round
10. Altitude 59° Elevation
11. Direction from observer 50°
12. Distance from observer
13. Direction of flight of object(s) East of West
14. Time in sight 2 Seconds
15. Speed 2° in 2 seconds
16. Sound and odor None
17. Trail None
18. Luminosity Bright as a Star
19. Projections
20. Maneuvers
21. Manner of disappearance Went out
22. Effect on Clouds
23. Additional information concerning object
24. Weather Conditions Clear

(over)

7-3112-18

UNCLASSIFIED

UNCLASSIFIED

Page 2

Incident 322

Name and address of observer:

~~XXXXXXXXXXXXXXXXXXXX~~
Albuquerque, New Mexico

Occupation and hobbies:

Farmer

Comments of Interrogator relative to intelligence and character of observer(s):

NARRATIVE SUMMARY:

See original Report in file with incident 318

UNCLASSIFIED

~~CONFIDENTIAL~~
GUIDE TO INVESTIGATION

UNIDENTIFIED AERIAL OBJECTS

~~UNCLASSIFIED~~

Incident No. _____

1. Date of Observation 30 April 1949 Date of Interview 2 May 1949
2. Exact time of observation (local) 2215
3. Place of Observation:
(Map Coordinates)
4. Position of observer (air, car, bldg, location of - give details :
Standing looking North.
5. What attracted attention to object:
6. Light
Number of objects and sketch of formation or grouping:
7. One
Apparent size (compare to known object, i.e., sun, moon, thumb or
fist at arms length):
Tenth moon
8. Color of object:
Blue green
9. Shape (give graphic description - compare with known object):
Round
10. - Altitude (Angle of elevation above horizon = 0° at horizon, 90°
overhead):
59
11. Direction from observer (Angle clockwise from north):
50
12. Distance from observer (Distance to town, bldg, etc., over which object
appeared to be):

13. Direction of flight of object (s): East to West
**DOWNGRADED AT 3 YEAR INTERVALS:
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10**
14. Time in sight:
Two seconds
15. Speed (time to cover given angular distance):
Two seconds - two degrees
16. Sound and odor:
None

UNCLASSIFIED

~~CONFIDENTIAL~~

UNCLASSIFIED

Incident No. _____

17. Trail (color, length, width, persistence, etc.)

No

18. Luminosity (visible by reflection, incandescent, other - degree of brilliance):

Bright as two stars

19. Projections (fins, wings, rods, antennae, canopies, etc.):

None

20. Maneuvers (turns, climbs, dives, etc. - sketch of flight path):

None

21. Manner of disappearance:

Went out

22. Effect on clouds:

None

23. Additional information concerning object:

None

24. Weather conditions and light at time of sighting:

Clear

Name and address of observer:

_____, Albuquerque, N. Mex.

Occupation and hobbies:

Farmer

Comments of Interrogator relative to intelligence and character of observer
(Check neighbors, police dept., FBI records, employer, etc.):Did observer wear glasses, especially polaroid glasses at time of sighting,
or was object viewed through canopy, window, or other transparent material?

UNCLASSIFIED

CONFIDENTIAL

HEADQUARTERS FOURTH ARMY
FORT SAM HOUSTON, TEXAS

452.1 AKADB

2 May 1949

SUBJECT: Unconventional Aircraft

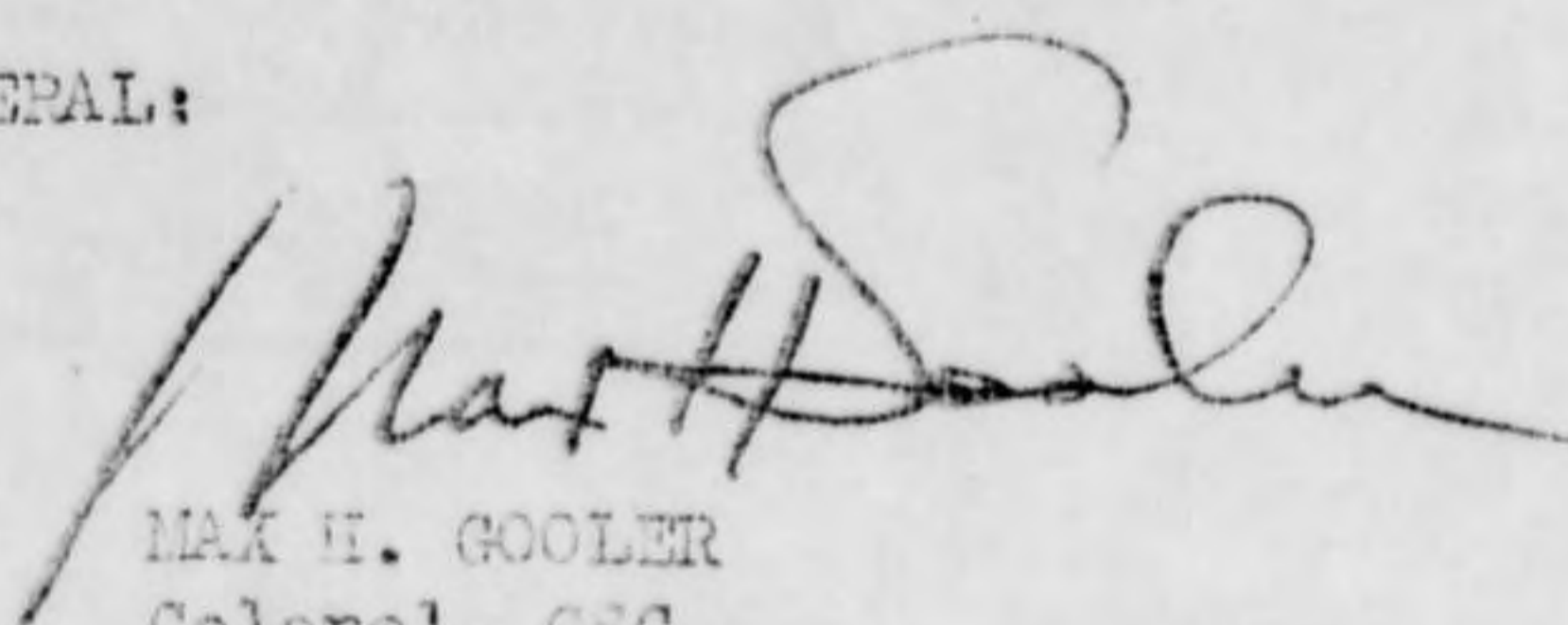
TO: Commanding General
Air Materiel Command
Wright-Patterson Air Force Base
Dayton, Ohio
ATTN: M.C.I.

1. Reference letter, Director of Intelligence, General Staff, United States Army, CSGID 452.1, 25 March 1948, subject, "Unconventional Aircraft," and to Control No. A-1917.

2. The inclosed report Headquarters Anti-Aircraft Artillery and Guided Missile Center, Fort Bliss, Texas, subject as above, AKBAAB 452.1, dated 28 April 1949, is forwarded for your information and any action deemed necessary.

FOR THE COMMANDING GENERAL:

1 Incl
As stated w/2 incls


MAX H. COOLER
Colonel, GSC
Actg AC of S, G-2

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOE FOR 30-10

UNCLASSIFIED

TRANSMITTAL

RESTRICTED

ATSC FORM NO. 80-506 (1 JAN. 45)

FROM: WOLFE	DATE: 3-10-45	IDENTIFICATION NUMBER: 3-10-45
INCOMING <input checked="" type="checkbox"/>	INTER-OFFICE <input type="checkbox"/>	OUTGOING <input type="checkbox"/>
COMPLETE FILE COPY <input type="checkbox"/>	INCOMPLETE FILE COPY <input type="checkbox"/>	NO FILE COPY <input type="checkbox"/>

FROM: **HQ JAPANESE ARMY TO SAN BERNARDINE MEX TO: CG ASC AMB;**

REG. NO. **11701**

DESCRIPTION, DATES AND SUBJECT:

ITR 3-2 (2-2P) UNCONVENTIONAL A/C

INCLOSURES: **1 ITR 4-20 (1-1P) W/A of Sketch Overlay of map n/a (1-1P) 2 Sketches n/a (1-1P) (CONF) S-40242**

TO: (OFFICE SYMBOL)	COPY NO.	REC'D BY (FULL SIGNATURE)	DATE REC'D	HOUR
1				
TO: 1871AYT-1	COPY NO.	REC'D BY W. Murphy	DATE REC'D 3/9	HOUR 1130
S	COPY NO.	REC'D BY Amended Palmer	DATE REC'D 5-10	HOUR 935
	COPY NO.	REC'D BY	DATE REC'D	HOUR

RESTRICTED

CONTROL NO.	SU	SUBJECT: Ltr	DECIMAL FILE NO.	FOLLOW UP ON
Q - 333		Unconventional Aircraft		
		Sec ret S-40242 5-752		DATE
FROM:	Fourth Army Ft San Houston	DATED	5/2/49	
TO:	IAXS Texas	NO. INCLS.	2	
RECORDING	AXT-1	DATE	5/9/49	1430
DESK		RECORDED		HOUR
ROUTED TO	SUSPENSE DATE	ESTABLISHED BY (INITIALS)	DATE	
1 IAXS	N/R	JWT	10 May 49	
2				
3				
DATE OF REPLY	OTHER DISPOSITION:			TRANSMITTAL AMC FORM NO. 10-2 (20 NOV. 47) SEE OTHER SIDE FOR REMARKS



Scale 1:25 000 (Approximate)

1 Mile

2000 Meters

2000 Yards

TRANSVERSE MERCATOR PROJECTION
1927 NORTH AMERICAN DATUM

DATUM IS MEAN SEA LEVEL

LAND METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 13

TICKS INSIDE THE NEATLINE INDICATE THE
1000 YARD U.S. POLYCONIC GRID, ZONE E

THE LAST THREE DIGITS OF THE GRID NUMBERS ARE OMITTED

IF NO ERRORS OR OMISSIONS ON THIS MAP ARE NOTED TO MARK HEREON AND FORWARD REPORT TO COMMANDING
NAVY MAP SERVICE, WASHINGTON, D. C. MAPS SO FORWARDED WILL BE RETURNED OR REPLACED IF DESIRED.

HEIGHTS IN FEET

UNCLASSIFIED

Ltr, Hq, AAA & GM Ctr, file AKBAAB 452.1, subj: Unconventional Aircraft
dtd 28 April 1949

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Name and addresses of witnesses:

Major John R. Henderson, 82nd AAA AW Bn., Ft Bliss, Texas
Sgt Stephen Bornowski, Btry A, 5th AAA AW Bn., Ft Bliss, Texas
Cpl Ernest J. Linn, Btry A, 5th AAA AW Bn., Ft Bliss, Texas
Cpl Rayborn A. Joyner, Btry A, 5th AAA AW Bn., Ft Bliss, Texas
Pvt James L Brown, Btry A, 5th AAA AW Bn., Ft Bliss, Texas
Rct Samuel J Clark, Btry A, 5th AAA AW Bn., Ft Bliss, Texas

Occupation and hobbies: All persons listed above as witnesses are
in the military service.

Comments of interrogator relative to intelligence and character of
observer: All personnel who observed this incident have arrived
in this area recently. A check among officers and men of the unit
reveal that their character are above reproach.

Did observer wear glasses, especially poleroid glasses at time of
sighting or was object viewed through canopy, window, or other,
transparent material: Cpl Rayborn a Joyner was wearing ordinary
sight adjustment glasses. All others were sighting with an eight
(8) power telescope with which the M5A2 Director is equiped.

GENERAL

1. Teletype sequences of local weather conditions:

Clouds: Broken to overcast at 20,000 feet, visibility: Unlimited,
Maximum temperature: 59 degrees F, Winds at 1000 to 1500 feet at
60 degrees with speed at 8 knots, Relative humidity at 1500 feet
at 25 per-cent.

2. Winds aloft report: At 1000 to 1500 feet, from 60 degrees at
8 knots per hour.

a. Adiabatic chart for period in question: None available.

UNCLASSIFIED

DOWNGRADED AT 8 YEAR
DECLASSIFIED AFTER
DOD DIR 5200.10
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UNCLASSIFIED

Ltr, Hq, AAA & GM Ctr, file AKBAAB 452.1, subj: Unconventional Aircraft,
dtd 28 April 1949

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3. Local flight schedules of commercial, private and military aircraft flying in vicinity at time: Military, commercial and private aircraft were flying in the vicinity of Biggs Air Force Base and El Paso Municipal Airport at the time of sighting.
 4. Possible releases of testing devices in vicinity sent aloft by Ordnance, Navy Air Force, Weather Units, Research organizations or any other:

At White Sands Proving Ground, N.M. and Holloman Air Force Base, N. M., the "Skyhook Program" has been underway for the past three (3) days. This program consists of sending balloons of 150 feet in diameter, with instruments attached to record certain atmospheric conditions. These balloons are painted red and white. No guided missiles at either of the two installations cited above were launched during the period involved. Negative results were received from Biggs Air Force Base.

5. Did object contact the earth: Object did not contact the earth.
6. Photographs or sketches: Sketches are attached hereto.
7. Signed statements: Signed statements were received and are being retained at this headquarters.
8. Obtain fragments or physical evidence where possible: Not possible.

FOR THE COMMANDING GENERAL:

2 Incls






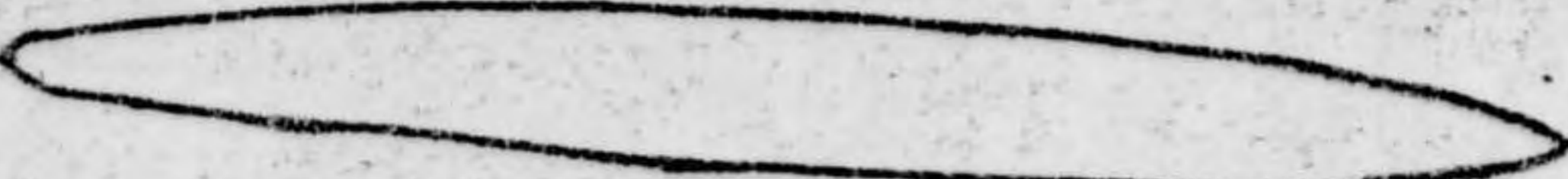
1. Overlay of map stated in par 3 above
2. Sketches

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

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Individuals report on description of the objects sighted with numbers
and names listed below.

- 1- *very highly Reflective on Top only*

- 2- *Light Reflected off of Top very Shiny*
Bright

- 3- 
- 4- 
- 5- *Shine*

- 6- *Reflection on Top a white gleam*


1. John R. Henderson
2. Stephen Borowski
3. James L. Brown
4. Ed Adcock Jr.
5. Samuel J. Clark
6. Ernest J. Lynn

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

UNCLASSIFIED

NAD 37386

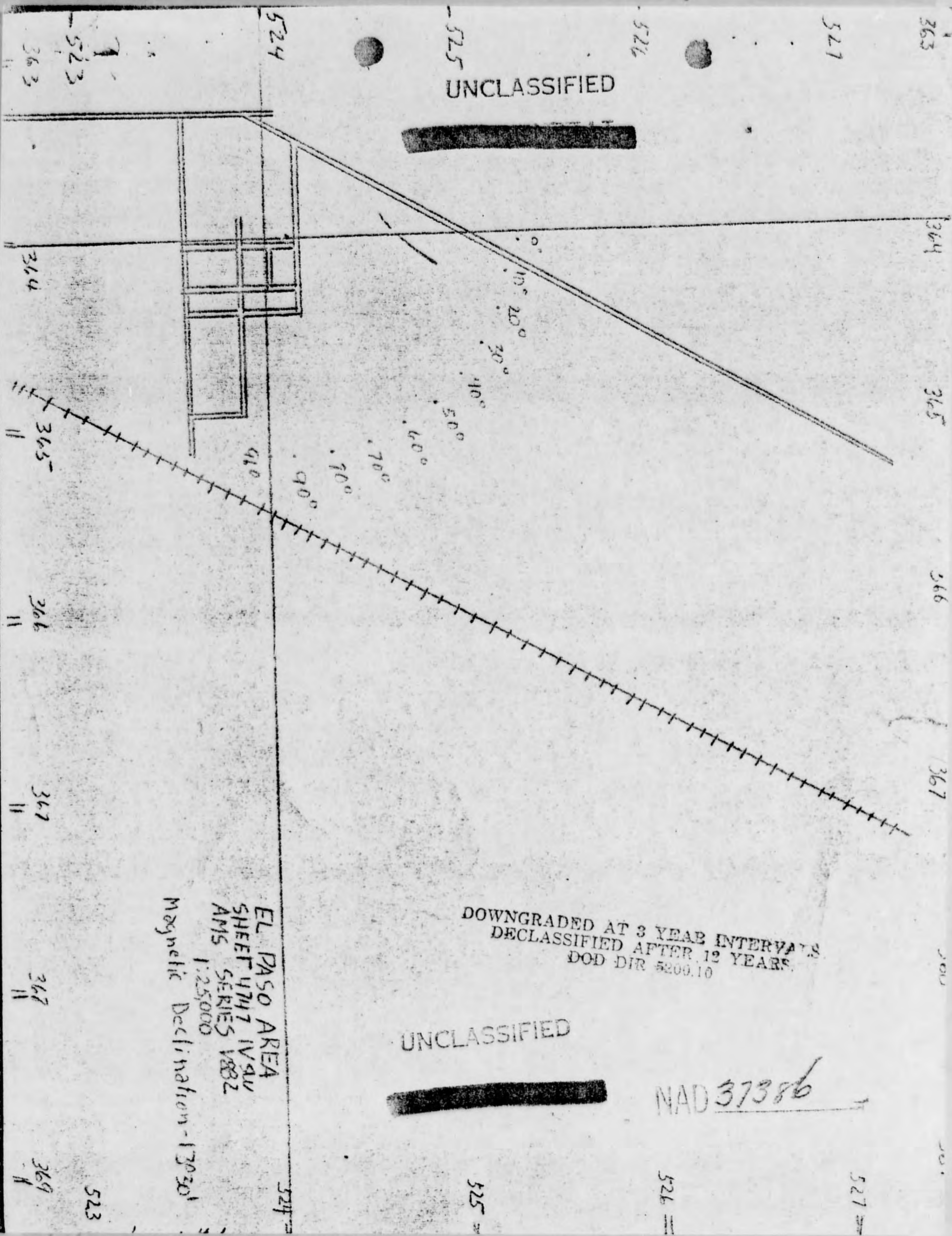
UNCLASSIFIED

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

UNCLASSIFIED

NAD 37386

EL PASO AREA
SHEET 4747 IV 94U
AMS SERIES V882
1:25,000
Magnetic Declination - 13°30'



UNCLASSIFIED

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7. Apparent size: About one-half ($\frac{1}{2}$) inch long. Object was sighted through an eight (8) power telescope of a M5A2 Director, with an amber filter.
 8. Color of object: Silver, was shining like highly polished metal.
 9. Shape: Flat, like a silver dollar.
 10. Altitude: Angle of five (5) degrees.
 11. Direction from observer: Due east (90 degrees)
 12. Distance from observer: Appeared to be over the Hueco Mountain range, approximately 20 miles.
 13. Direction of flight of object: Stationary
 14. Time of sight: From 0745 to 0748 MST
 15. Speed: Stationary
 16. Sound or odor: None
 17. Trail: No trail observed.
 18. Luminosity: Very bright and the sun reflected off of object.
 19. Projections: None noted
 20. Maneuvers: Remained still in air.
 21. Manner of disappearance: All at once - Object disappeared when cloud formations came between object and observer. When the cloud passed point of sighting, object could no longer be seen.
 22. Effect on clouds: None - The clouds were all around the object but the object was in the clear sky.
 23. Additional information concerning object: None
 24. Weather conditions and light at time of sighting: Hazy

UNCLASSIFIED

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DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR. 5800.10

[REDACTED]

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[REDACTED]
UNCLASSIFIED

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HEADQUARTERS
ANTI-AIRCRAFT ARTILLERY AND GUIDED MISSILE CENTER
Fort Bliss, Texas

AKBAAB 452.1

28 April 1949

SUBJECT: Unconventional Aircraft

TO: Commanding General
Fourth Army
Fort Sam Houston, Texas
ATTN: A C of S, G-2

In compliance with letter, headquarters Fourth Army, file AG 452.1
AKADE, subject as above, dated 4 April 1949, the following report is sub-
mitted:

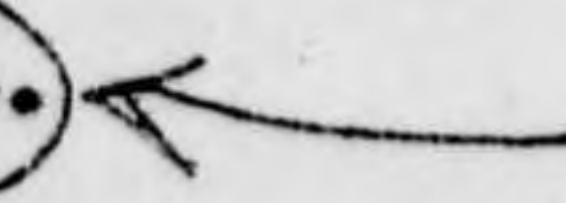
1. Date of observation: 28 April 1949
Date of interview: 28 April 1949
2. Exact time of observation(loc-1): 0745 MST
3. Place of observation: Observed from the NE corner of the
82nd AAA AW Bn., Logan Heights, Fort Bliss, Texas. (Map
1:25,000, El Paso, Texas sheet #4747 IV SW AMS series
V832) Coordinates 364-524.1 (see inclosure #1).
4. Position of observer: Outside at position indicated
under 3 holding gun drill.
5. What attracted attention to object: While tracking, per-
sonnel saw an object in the air, thought they were track-
ing aircraft, but the object did not move.
6. Number of objects and sketches of formation or group: Two
(2) sighted. See inclosure #2 for sketches.

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[REDACTED]
DOWNGRADED AT 3 YEAR 2 EXTENSION
DECLASSIFIED 15 YEARS
100-100000-10

Incident No. _____

Date of Interview: _____

1. Date of observation: 24 April.
2. Exact time of observation: Between 1030 - 1035 MST.
3. Place of observation: $32^{\circ} 53' N$ $107^{\circ} 20' W$
(Map Coordinates)
4. Position of observer (air, car, bldg, location or - give details):
Ground, operating a theodolite tracking balloon.
5. What attracted attention to object: Turned to look at balloon with
naked eye.
6. Number of objects and sketch of formation or grouping: One
7. Apparent size (compare to known object, i.e., sun, moon, thumb or fist
to arm's length: N. 02 (size of balloon 50 gm size at 15,000 feet
distance.))
8. Color of object: White
9. Shape (give graphic description - compare with known object): Elliptical,
around 2-1/2:1 slenderness ratio
10. Altitude (angle of elevation above horizon - 0° at horizon, 90° overhead):
Came in from 210° at 45° elevation. Passed through the sun, was about 55°
when due east then disappeared at 25° elevation about 25° east of north.
11. Direction from observer (angle clockwise from north): _____
12. Distance from observer (distance to town, bldg, etc. over which object
appeared to be): Unknown.
13. Direction of flight of object: See sketch.
14. Time in sight: Around 60 seconds. 
15. Speed (time to cover given angular distance): Measured to be 5° azimuth/sec.
16. Sound and odor: None. Quiet--no trucks or planes near at time.
17. Trail (color, length, width, persistence, etc.): None
18. Luminosity (visible by reflection, incandescence, other degree of
brilliance): Believed reflection.
19. Projections (fins, wings, rods, antennae, canopies, etc.): None visible,
Focus not good.

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Guide to Investigation (Cont'd)

- Winds! Winds! Winds!
20. Maneuvers (turns, climbs, dives, etc. - sketch of flight path):
(See Sketch)
 21. Manner of disappearance: Grew smaller rapidly then disappeared.
 22. Effect on clouds: No clouds, no effect.
 23. Additional information concerning subject: See report.
 24. Weather conditions and light at time of sighting: Clear except for 1/10 cumulus to west, no dust, bright desert day.
 25. Name and address of observer: ~~XXXXXXXXXXXXXXXXXXXX~~
~~XXXXXX~~ Minneapolis, Minn.

Occupation and hobbies: Chemical engineer; Meteorological Training
Equipment, balloons) Member Balloon Crew, General Mills.
Hobby: Astronomy.

Comments of interrogator relative to intelligence and character of
observer (ask neighbors, police dept, FBI records, employer, etc.)

Did observer wear glasses, especially polaroid glasses at time of
sighting, or was object viewed through canopy, window, or other trans-
parent material?

DOWNGRADED AT 8 YEAR INTERVAL
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

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COPY

fact the limit of binocular depth perception is reached at a distance of about 100 meters. He therefore concludes that the observer could not estimate the distance of the object from him. Since he could not estimate the distance then any assumption as to linear speed and/or elevation is without reason.

5. Let us for a moment assume that when first sighted the elevation of the object was 25° , the subtended angle $.02^\circ$ ($1' 12''$) and the angular velocity $5^\circ/\text{second}$. Let us further assume length of the object as 25 and 50 feet to determine if objects speed and altitude could be explained by present day aircraft.

A. Assuming length of 25 feet:

1. Distance from observer 71,450'
2. Altitude of object 30,126'
3. Linear Velocity 4,261 MPH

B. Assuming length of 50 feet:

1. Distance from observer 142,900'
2. Altitude of object 60,372'
3. Linear Velocity 8,521

6. In view of the above no identification is offered.

7. If further research on this incident is desired an independent study by each Project Grudge consultant will be requested.

FOR THE COMMANDING GENERAL:

2 Incls:

1. Statement
2. Guide to Investigation

EARL D. E. WATSON

Colonel, USAF

Acting Chief, Intelligence Department

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~~RESTRICTED~~

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RELAYS

RELAYS/000/ER

SUBJECT: Project Grudge

TO: Headquarters USAF
Director of Intelligence
ATTN: Air Defense Branch
Major Boggs
Washington 25, D. C.

1. Reference is made to USAF 3.1. 373, Item 13 of 12 July 1949 regarding sighting of unidentified aerial object near Arroyo, New Mexico.

2. Inclosures 1 and 2 comprise the information submitted to Project Grudge relative to this sighting. On the basis of this information object was conservatively computed to be approx 100 feet long traveling at a speed near 17,000 MPH.

3. The resolving power of the unaided eye under normal lighting conditions is approximately one minute of arc. This is due or partly due to diffraction phenomena and to the coarseness of the retinal structure. With a $\frac{1}{2}$ power theodolite the observer's resolution would be a maximum of .3 minute of arc or .005" subtended angle, therefore, it is possible and even probable that the .02" subtended angle reported is true; it is also possible although not probable that he could distinguish the ratio of length to width (given as 2 1/2:1), the width being on the lowest limit for resolution. At this lowest limit of resolution it would be impossible to distinguish color since the resolution becomes less when colored radiation is used.

4. Since this object was an unfamiliar one the observer could have no idea as to its actual size, without this the only method of determining the distance was by binocular depth perception. Here we encounter the

DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

UNCLASSIFIED

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UNCLASSIFIED

940000yds. N.

3514000m. N.

31°45'00"

106°30'00" 358000m. E.

845000yds. E.

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A.M.S. V082A

First Edition (AMS 1), 1948.

Prepared under the direction of the Chief of Engineers by the Army Map Service (AM), Corps of Engineers, Department of the Army, Washington, D. C., 1948. Mosaic controlled by best average fit to SHEET 4747 IV SW, A.M.S. Series V882 (AMS 1), Texas, 1:25,000. Aerial photographs flown by U.S. Army Air Force, September 1944.

LEGEND

Clouds

C

No photos available

U

Reliability of grid uncertain due to local minor disagreement between photo map and topographic map.



APPROXIMATE MEAN DECLINATION 1947
FOR CENTER OF SHEET
ANNUAL MAGNETIC CHANGE 1' WESTERLY

Use diagram only to obtain numerical values. To determine magnetic north line, connect the pivot point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale of the north edge of the map.

fact the limit of binocular depth perception is reached at a distance of about 100 meters. He therefore concludes that the observer could not estimate the distance of the object from him. Since he could not estimate the distance then any assumption as to linear speed and/or elevation is without reason.

5. Let us for a moment assume that when first sighted the elevation of the object was 25° , the subtended angle $.02^\circ$ ($1' 12''$) and the angular velocity $5^\circ/\text{second}$. Let us further assume length of the object as 25 and 50 feet to determine if objects speed and altitude could be explained by present day aircraft.

A. Assuming length of 25 feet:

1. Distance from observer 71,450'
2. Altitude of object 30,126'
3. Linear Velocity 4,261 MPH

B. Assuming length of 50 feet:

1. Distance from observer 142,900'
2. Altitude of object 60,372'
3. Linear Velocity 8,521

6. In view of the above no identification is offered.

7. If further research on this incident is desired an independent study by each Project Grudge consultant will be requested.

FOR THE COMMANDING GENERAL:

2 Incle

1. Statement
2. Guide to Investigation

HAROLD E. WATSON
Colonel, USAF
Acting Chief, Intelligence Department

UNCLASSIFIED

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[1949]

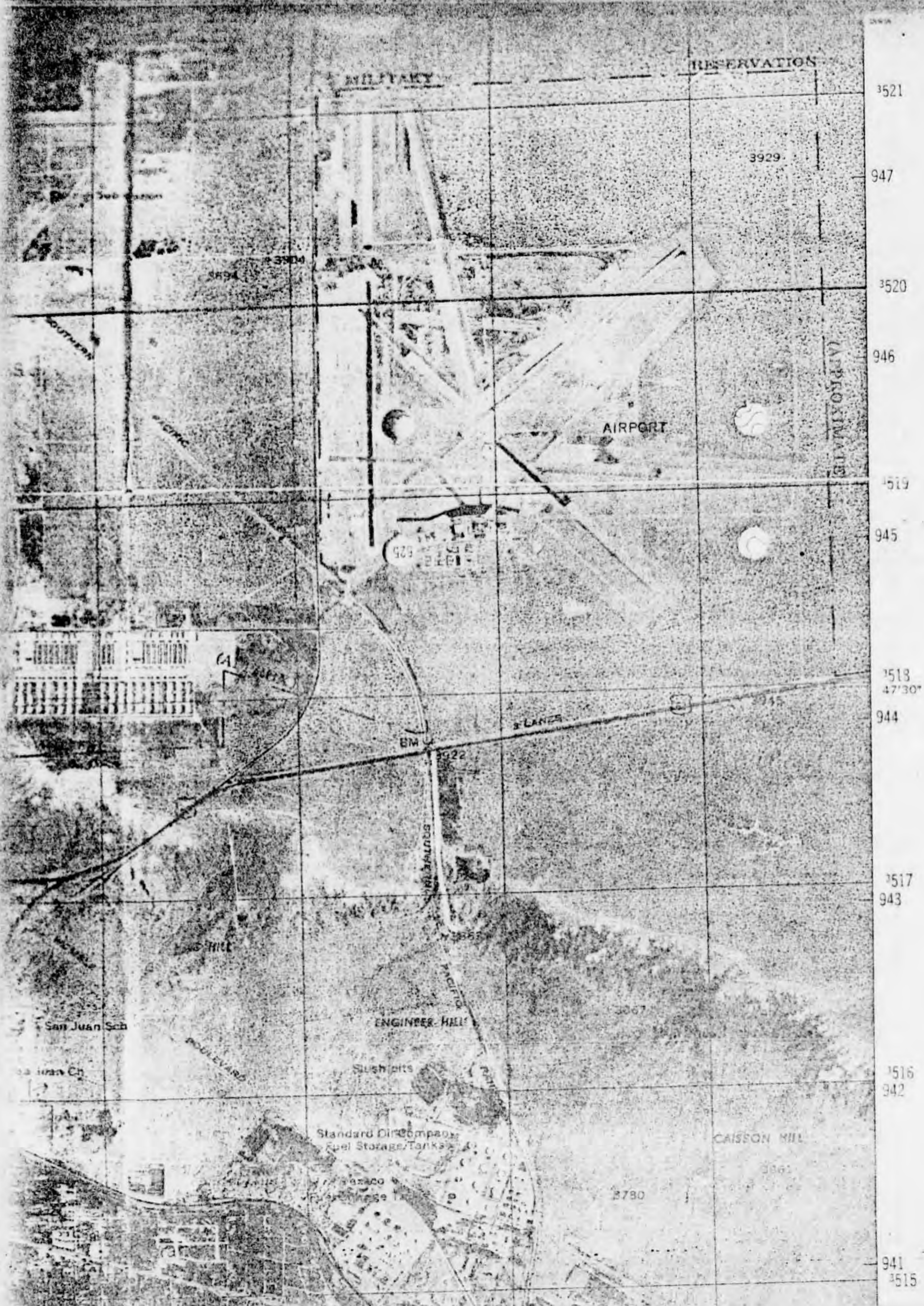
1 - 14 MAY SIGHTINGS

<u>DATE</u>	<u>LOCATION</u>	<u>OBSERVER</u>	<u>EVALUATION</u>
May	Antartic (CASE MISSING)	Military	
2	Elko, Nevada	[REDACTED]	AIRCRAFT
3	Sidney, Ohio	[REDACTED]	AIRCRAFT
3	Dayton, Ohio	[REDACTED]	AIRCRAFT
3	Los Alamos, New Mexico	[REDACTED]	Astro (METEOR SHOWER)
3	Hillsboro, Missouri	[REDACTED]	AIRCRAFT
4	Limona, Florida	[REDACTED]	Astro (MOON)
4	Maplewood, Ohio	[REDACTED]	AIRCRAFT
5	Fort Bliss, Texas	[REDACTED]	UNIDENTIFIED
6	Sidney, Ohio	[REDACTED]	AIRCRAFT
6	Camp Hood, Texas	[REDACTED]	Astro (VENUS)
6	Livermore, California	[REDACTED]	UNIDENTIFIED
7	St Louis, Missouri	[REDACTED]	AIRCRAFT
7	Camp Hood, Texas	[REDACTED]	1. AIRCRAFT 2. Astro (BETELGEUSE) 3. Astro (CAPELLA)
8	Camp Hood, Texas	[REDACTED]	BALLOON
8	Tuscon, Arizona	[REDACTED]	BALLOON
9	Tuscon, Arizona	[REDACTED]	UNIDENTIFIED
11	Watertown, New York	[REDACTED]	BALLOON
12	Holloman AFB, New Mexico	[REDACTED]	Astro (STARS/PLANETS)
12	Westfield, Indiana	[REDACTED]	AIRCRAFT
12	Roanoke, Virginia	[REDACTED]	AIRCRAFT
12-15	Osceola, Iowa	[REDACTED]	Other (REFLECTIONS)
13	Boise, Idaho	[REDACTED]	AIRCRAFT

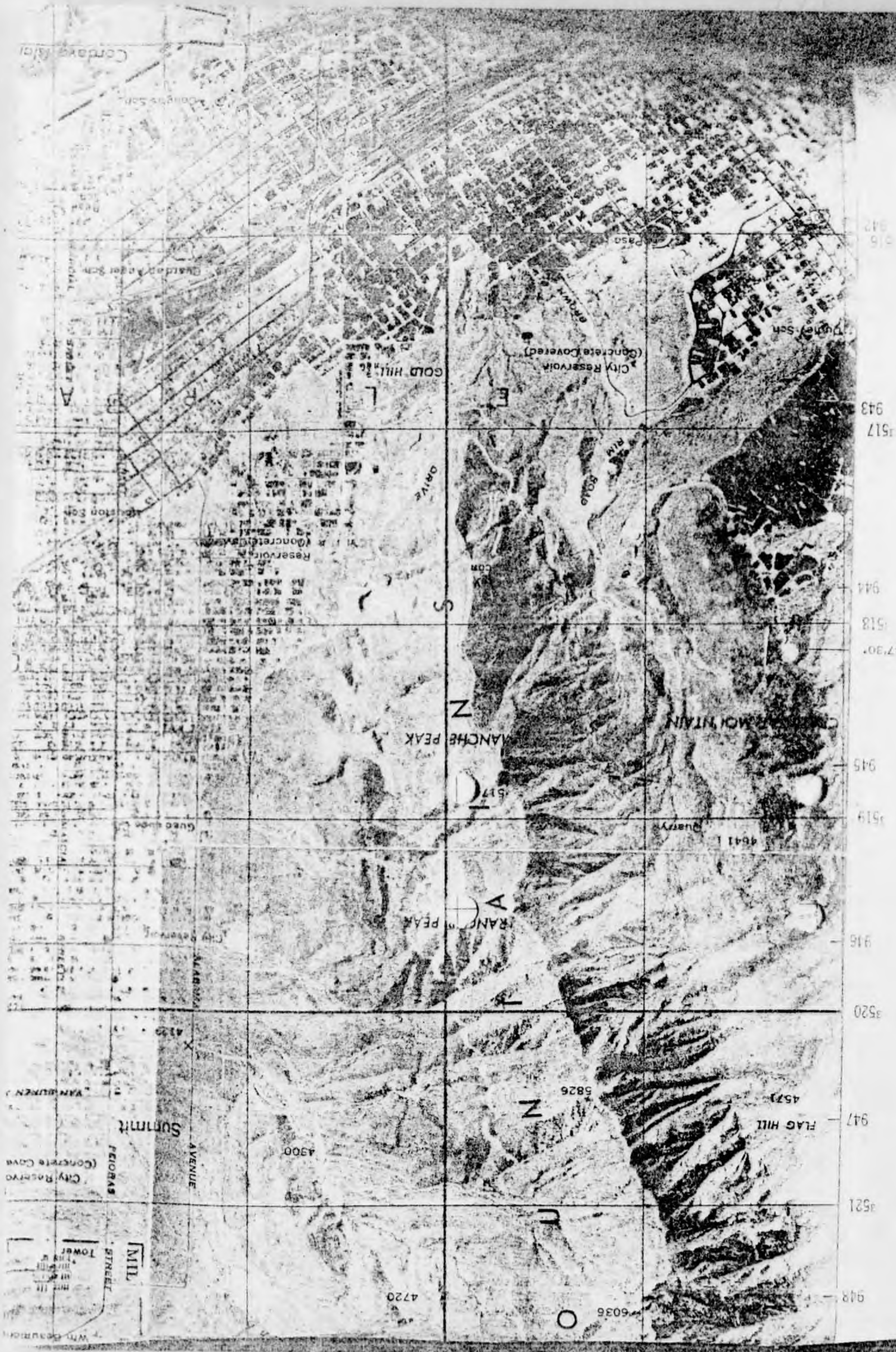
ADDITIONAL REPORTED SIGHTINGS (NOT CASES)

<u>DATE</u>	<u>LOCATION</u>	<u>SOURCES</u>	<u>OBSERVER</u>
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1 - 14 MAY





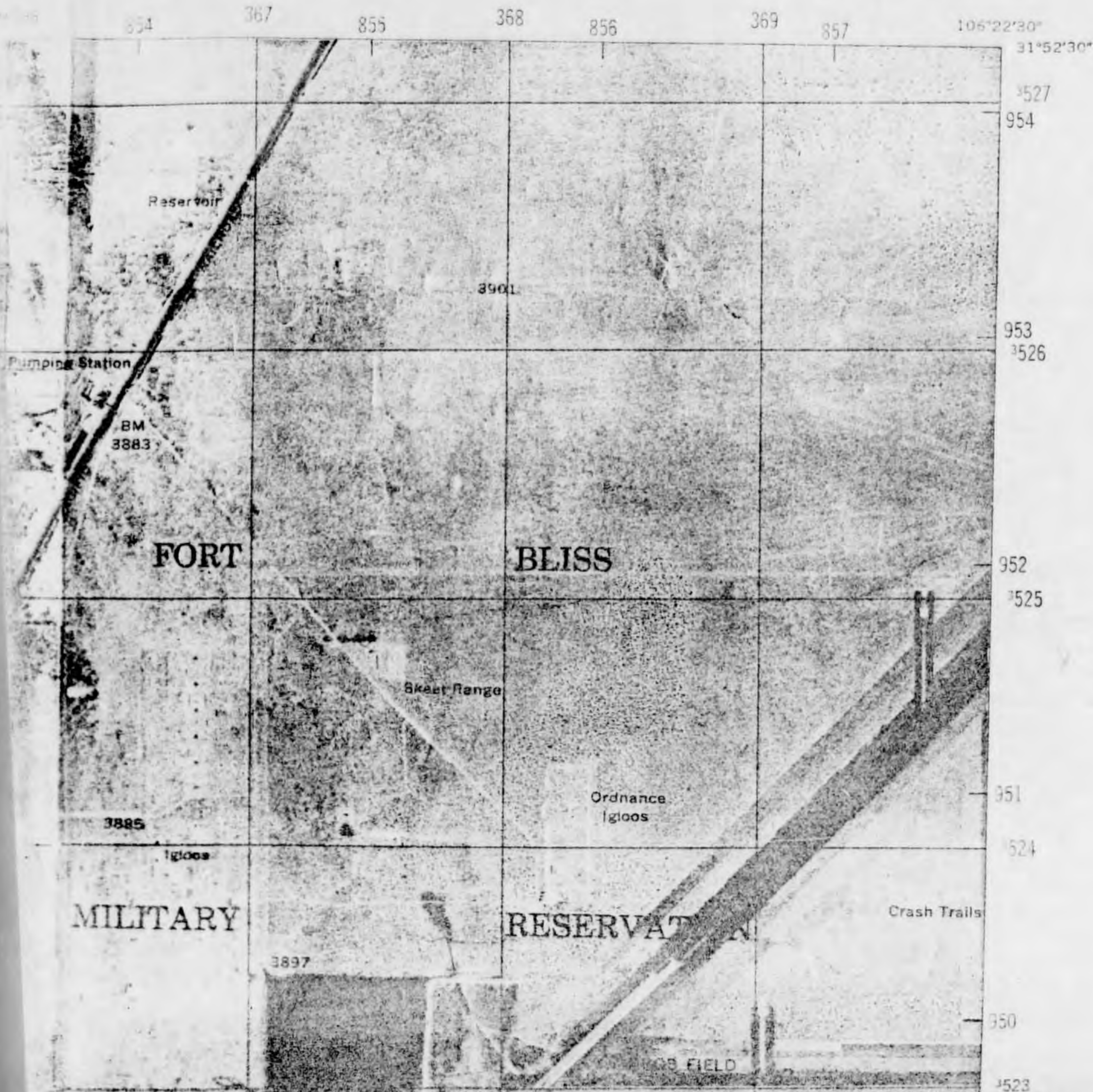


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SHEET 4747 IV SW

A.M.S. SERIES V082A

12° 3° 14° 15° 16°



TEXAS PHOTO MAPS 1:25,000

FIRST EDITION - AMS 1

